[LCT3] Advanced LCD Technologies
Chair: Hiroyuki Okada (University of Toyama)
Co-Chair: Koichi Miyachi (JSR)
Wed. Nov 27, 2019 5:00 PM - 6:20 PM  Room 107 (1F)

5:20 PM - 5:40 PM

[LCT3-2] Optimization of color and transmittance in a dye-doped chiral-nematic liquid crystal cell
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Keywords: liquid crystal, dichroic dye, dye-doped liquid crystal, transmittance-control device

Among various dye-doped liquid crystal (LC) devices, a chiral-nematic LC cell provides the highest transmittance difference between its transparent and opaque states. We propose a systematic approach to find the optimal dye mixing for black color in the opaque state and optimization method in the parameter space for the maximum transmittance difference.